Remarks

This application was originally filed with 56 claims. Previously, Claims 5, 8-29, and 33-56 were cancelled and Claims 57-61 were added. Claim 61 has been allowed. Claims 1-4, 6, 7, 32, 57, and 60 have been rejected. Claims 30, 31, 58, and 59 have been objected to. Therefore, Claims 1-4, 6, 7, 30-32, and 57-61 are pending in this application. Applicant respectfully requests reconsideration of the pending claims in this Application based on the arguments submitted below.

The 35 U.S.C. § 102 Rejections

The Examiner stated his objection to the claims as follows: "Claims 1-4, 6, 7, 32, 57, 60 are rejected under 35 U.S.C. § 102(b) as being fully met by Schimdt et al (USP 6353174)." Schimdt et al has a filing date of December 10, 1999. Applicant respectfully submits that the Application has priority over Schmidt et al because the Application claims the benefit of two provisional applications that pre-date the Schmidt reference. For convenience, the benefit claims from page 1, lines 3-17 of the Application are reproduced below:

"This application is a continuation of and claims benefit of U.S. Patent Application Serial No. 09/995,405 filed November 27, 2001, entitled 'Universal Digital Media Communications and Control System and Method' which is a continuation-in-part of and claims benefit of copending U.S. Patent Application Serial No. 09/557,560 filed April 25, 2000, now U.S. Patent No. 6,353,169 issued on March, 5, 2002, entitled 'Universal Communications and Control System For Amplified Musical Instruments', which claims benefit of our previously filed provisional applications Serial No. 60/131,031 filed April 26, 1999, entitled 'Universal Communications and Control System

For Amplified Musical Instrument', and Serial No. 60/156,003 filed September 23, 1999, entitled 'Universal Communications and Control System For Amplified Musical Instrument.'"

Applicant has generated the following chart associating Claims 1-4, 6, 7, 32, 57 and 60 to provisional application 60/156,003 in support of Applicant's contention that the Application has priority over Schmidt et al:

Nonprovisional Application	Provisional Application 60/156,003 filed on
10/694,710	Sept. 23, 1999
Claim 1: (Preamble) A digital media communications and control system comprising:	"The GMICS system is bi-directional digital connection of musical instruments, processing devices, amplifiers or recording systems Each GMICS device generates, processes, relays, or receives audio data, control data, or both." See page 11, lines 12-16. "[A] system that will allow digital audio signals and data to flow over a single cable in both directions" See page 6, lines 4-19.
a plurality of audio devices,	"GMICS system may include a guitar, amplifier, and volume pedal." See page 11, line 12 - page 12 line 3. See also figure 1; figure 2; and figure 9.
each of the devices including a device	"Bi-directional device interface" See page
interface module	7, line 21 - page 8, line 4. See also figure 6.
for communication of digital audio	"GMICS enables musical instruments and
data and control data from at least one of the devices to at least one other of the devices;	their supporting devices such as amplifiers, mixers, and effect boxes from different vendors to digitally inter-operate in an open-architecture infrastructure." See page 9, lines 16-18. "The GMICS system is a bi-directional digital connection of musical instruments, processing devices, amplifiers or recording systems Each GMICS device generates, processes, relays, or receives audio data, control data, or both." See page 11, lines

	10.10
	12-16.
	See also figure 1; figure 2; and figure 9.
a universal data link operatively	"Each device has one or more GMICS Link
connected to each of the device	connections. A GMICS system is
interface modules;	comprised of devices that have GMICS
	data links." See page 11, line 12 - page 12
	line 3.
	See also figure 1; figure 2; page 69, lines 4-
	12; page 81, lines 10-12.
the device interface modules and	"The GMICS Link is a high-speed point-to-
universal data links are operative in	point connection transmitting full-duplex
combination to connect the devices	digital audio, control, and user data
together in the system and provide	between two interconnected GMICS
full duplex communication of the	devices." See page 6, lines 16-18.
digital audio data and control data	See also page 7, line 21 - page 8, line 4;
between the devices; and	page 6, lines 4-7; figure 1; and figure 2.
wherein each data link includes a	"This GMICS transport uses standard
conventional CAT5 network cable	CAT5 cable and RJ-45 connectors." See
terminated by conventional RJ-45	page 12, lines 10-13.
connectors.	See also page 19, lines 9-10; figure 5.
Claim 2: The system of Claim 1	"GMICS uses <u>a</u> standard Category 5 cable
wherein each data link comprises one	for device interconnection." See page 20,
and only one of said CAT5 network	lines 2-5.
cables connecting a pair of devices.	"Of the eight conductors in a standard
	Category 5 ("CAT5") cable, only four are
	used for data transport. G100TX uses the
	four unused conductors to supply phantom
	" See page 13, lines 5-8.
	See also figure 5; figure 6.
Claim 3: The system of Claim 1	"GMICS is designed to function [as] a
further comprising a network hub	hub-centric system." See page 27, lines 20-
and	$\frac{1}{21}$.
	See also page 69, lines 4-12; figure 1; figure
	2; page 8, line 20 - page 9, line 1; page 35
	lines 7-20.
wherein at least some of the data	"As each instrument and amplifier are
links comprise said CAT5 network	connected into a hub on the stage via
cables connecting the device interface	simple RJ-45 network connectors." See
modules to the hub in a network	page 69, lines 9-11.
topology	"This includes both the data transport
topology	_
	mechanism and the interconnecting cables
	and connectors. This GMICS transport
	uses standard CAT5 cable and RJ-45
	connectors." See page 12, lines 11-13.

	Cas also figures 1. figures 2
	See also figure 1; figure 2; page 20, lines 15-16; page 26, lines 9-11.
whereby the digital audio data and control data that are communicated over the data links are accessible by each of the devices linked to the hub without having a direct connection between the devices.	"special effects devices can be shared with out physically moving or connecting them;" "physical connection into the system through any available connector;" "guitar does not have to be directly plugged into the guitar amplifier." See page 8, lines 9-16. See also figure 1; figure 2; figure 9.
Claim 4: The system of Claim 1 wherein each CAT5 network cable includes four twisted wire pairs, two of said pairs carrying phantom power to the devices.	"GMICS uses a standard Category 5 cable for device interconnection. A single cable contains four twisted pairs. Two pairs are used for data transport as in 100BASE-TX network connection. The remaining two pairs are used for power." See page 20, lines 1-5. See also page 21, lines 5-8; page 26 lines 5-22.
Claim 6: The system of Claim 1 wherein the audio devices comprise audio transducer devices, the transducer devices including one or more devices selected from a group comprising musical instruments, microphones, headphones, audio speakers, and audio recording devices.	"A GMICS system may include "instruments" An instrument is typically a sound transducer such as a guitar, microphone, or speaker." See page 7, lines 3-5. See also page 9, lines 10-11; page 74, line 11 - page 75 line 12; figure 1; figure 2.
Claim 7: The system of Claim 6 wherein the audio devices further comprise audio controller devices, the controller devices including one or more devices selected from a group comprising audio amplifiers and system control devices.	"A GMICS system may include 'controllers' A controller is typically an intelligent amplifier that provides connections and power for multiple GMICS instruments Controllers may also include upstream and downstream connections to other controllers for increased instrument connectivity." See page 7 lines 3-9. "GMICS technology can be quickly adapted for use in musical instruments, processors, amplifiers, recording devices, and mixing devices. See page 9 lines 10-11. See also page 9, lines 16-18; page 11, lines 12-14; figure 1; figure 2; figure 3.

Claim 32: The system of Claim 1	"special effects devices can be shared with
wherein functions performed by one	out physically moving or connecting them;"
of the audio devices can be shared by	"physical connection into the system
more than one of the other devices	through any available connector;" "guitar
connected to the system.	does not have to be directly plugged into
, and the second	the guitar amplifier." See page 8, lines 9-
	16.
	See also figure 1, figure 2; page 11, line 17 -
	page 12, line 3; figure 9.
Claim 57: The system of Claim 1	"[T]he GMICS Link uses currently
wherein the audio and control data	available components, the Ethernet
are in big endian order.	standard (the communications protocol), a
	commonly used RJ45 connector and a new
	communications protocol utilizing Internet
	type formatting." Page 73, lines 19-21.
	This discloses that the devices function on
	a standard network which is known to
	operate using data in big endian order, just
	as well as the cited Schmidt reference does.
Claim 60: (Preamble) A digital media	"The GMICS system is bi-directional
communications and control system	digital connection of musical instruments,
comprising:	processing devices, amplifiers or recording
comprising.	systems Each GMICS device generates,
	processes, relays, or receives audio data,
	-
	control data, or both." See page 11, lines 12-16.
	"[A] system that will allow digital audio
	signals and data to flow over a single cable
	in both directions " See page 6, lines
1 1'4 6 1' 1 '	4-19.
a plurality of audio devices,	"GMICS system may include a guitar,
	amplifier, and volume pedal." See page 11,
	line 12 - page 12 line 3.
	See also figure 1; figure 2; and figure 9.
each of the devices including a device	"Bi-directional device interface" See page
interface module	7, line 21 - page 8, line 4.
	See also figure 6.
for communication of digital audio	"GMICS enables musical instruments and
data and control data from at least	their supporting devices such as
one of the devices to at least one	amplifiers, mixers, and effect boxes from
other of the devices;	different vendors to digitally inter-operate
	in an open-architecture infrastructure."
	See page 9, lines 16-18.
	The GMICS system is a bi-directional

a universal data link operatively connected to each of the device	digital connection of musical instruments, processing devices, amplifiers or recording systems. Each GMICS device generates, processes, relays, or receives audio data, control data, or both." See page 11, lines 12-16. See also figure 1; figure 2; and figure 9. "Each device has one or more GMICS Link connections. A GMICS system is
interface modules;	comprised of devices that have GMICS
	data links." See page 11, line 12 - page 12
	line 3.
	See also figure 1; figure 2; page 69, lines 4-
	12; page 81, lines 10-12.
the device interface modules and	"The GMICS Link is a high-speed point-to-
universal data links are operative in	point connection transmitting full-duplex
combination to connect the devices	digital audio, control, and user data
together in the system and provide	between two interconnected GMICS
full duplex communication of the	devices." See page 6, lines 16-18.
digital audio data and control data	See also page 7, line 21 - page 8, line 4;
between the devices; and	page 6, lines 4-7; figure 1; and figure 2.
wherein the audio and control data	"[T]he GMICS Link uses currently
are in big endian order.	available components, the Ethernet
	standard (the communications protocol), a
	commonly used RJ45 connector and a new
	communications protocol utilizing Internet
	type formatting." Page 73, lines 19-21.
	This discloses that the devices function on
	a standard network which is known to
	operate using data in big endian order, just
	as well as the cited Schmidt reference does.

Allowable Subject Matter

The Office Action states that "Claims 30,31,58,59 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims." Applicant respectfully submits that in light of the

Application's priority over Schmidt et al the objection to Claims 30, 31, 58, and 59 should be removed.

Conclusion

For all of the reasons set forth above it is respectfully submitted that Claims 1-4, 6, 7, 30-32, and 57-61 are all in condition for allowance.

Respectfully submitted,

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